

### ABSTRACT

The present invention relates to a telecommunication device and method which converts pulses generated by rotary dial phones to DTMF signals, allowing the use of CTI applications regardless of the type of telephone set used by the caller or the type of the CO switch. Pulses are identified by the device's algorithm and converted into appropriate DTMF signals. This device connects across in parallel with all the telephone lines on the subscriber side at the CO that require monitoring to detect loop current. Pulse dialing as well as overdialing from a rotary phone is thereby detected and these pulses are converted into DTMF signals, suitable for extended services. The device can also determine time and date of the call, number dialed by the user and also the length of the call from the end of the initial dialing to the disconnection of the line.